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YUMA, ARIZONA, WEDNESDAY, OCTOBER 30, 1907.

ARIZONA SENTINEL. PUBLISHED EVERY WEDNESDAY YUMA: : : : : ARIZONA J. W. DORRINGTON, Proprietor.

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CATHOLIC CHURCH DIRECTORY: SUNdays. Mass at 9 a.m. Rosary and Benediction at 7 p.m. Week days. Mass at 7 a.m. Christian doctrine taught daily by the pastor-in English at 8:30 p.m.: in Spanish at 8:30 p.m.

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TIMELY HINTS

A Lesson in Intensive Farming by R. H. Forbes, Director and Chemist of Agricultural

Experiment Station.

University of Arizona, January 15, 1967. January 15, 1907.

Just west of Yuma, Arizona, in the alluvial flood-plain of the Colorado, lies a little farm of 7.2 acres which on May 1, 1905, was virgin bottomland, covered with saltweed, arrowbrush and creosote bushes. The original purpose of the tract was for planting selected varieties of date paims innorted by the U. S. Department of Agriculture from the Old World. The Experiment station, May 2, began preparing the ground, and on May 20 the work of leveling, hordering and irrigating the tract and the planting of 152 paims, was completed.

THE PLAN OF WORK.

Recognizing, however, that a farmer with his living to make meantime, cannot afford to wait for an orchard to come into bearing, it was planned to plant crops for quick returns between the tree-rows, thus putting the work on a feasible basis from the small farmer's point of view. In order to economize ground the irrigating borders were so placed as to coincide with the rows of palms, thus utilizing space otherwise usually wasted. The tract was divided by the borders had bus utilizing space otherwise usually wasted. The tract was divided by the borders had valley it a construction was remainer, and E. L. Crane, himself a Yuma Valley farmer, undertook the care of what was nieknamed our "play farm."

In size, as well as in the intensive character of the work planned, this "farm" is the opposite of the average holdings of this locality. The prevailing crops of the region are alfalfa, corn, barley, and forages in general, comparatively little attention being given to vegetables and fruits. Withal, the cost of levelling land in this region is high, rarely falling below twenty dollars an acre an unally for ten years. To meet these and other heavy items of expense in connection with the establishment of a farm in this region, intensive crops of a more remunerative character than those pow in vogue, are essential. It was partly, therefore, as an object lesson bearing upon these financial aspects of the general situation, that this cultural work was planned.

RECLAMATION OF THE GROUND-

The soil of our tract, a warm, sandy loam well adapted to gardening operations, was levelled, ditched and bordered at a contract price of \$17.20 an acre, considerably less than the average for the locality, reckoning the labor of men aimt teams at current rates. In addition, barbed wire and posts for fencing cost \$50.10; lumber for headgates cost \$50.57; a drive well point and pipe, a pitcher-spout pump and a barrel, \$13.45; a small lumber two-room house, including five and one half days carpenter hire, \$152.75; and a brush-roof shelter for horses, about \$5.00. Only skilled labor employed in leveling, bordering and ditching the ground, and for part construction of the house, is included in the above estimates, as the comigon labor required or cinarily would be, and in this case was, furnished by the farmer himself.

To bring this ground under cultivation and make it habitable for a small farmer and his family, as stated above, therefore required a cash outlay of about \$480.00. In addition, in the average instance must be included a team, wagon, plow, harrow, haying equipment, shovels hoes and other small tools. The soil of our tract, a warm, sandy loam

plon and Burpee's Quarter Century tornatoes, and sliaffa, besides a few hills of watermelons and sundry vegetables.

The produce was marketed in Yuma with the exception of tomatoes, which, for the largest part, were expressed to Tucson and Bisbee. The following statements for the various crops are on the basis of net cash returns to the small farmer, who with an average family of five and a team of horses is assumed to do the work required, as explained below. Hems necessitating cash outlay, as seed, irrigating water, and erates are deducted from gross returns. Water costs an average of 50 cents for irrigation per acre for the crops grown. The yields in certain instances are low, due to the unimproved condition of the soil, which, like desert soils in gera, ad, was low in ultrogen and organic matter. Some small saity areas also affected yields locally. White Bermuda onlong, 47 acres; Seed planted Sept. 27-Oct. 3, 1905. Young onlons transplanted, Feb. 5-9, 1904. Crop matured about June 1, Yield, 3916 pounds of dry onlons. Highest price received, 25c a pound; butter

lons. Highest price received, l-8c crop marketed in Yuma.		
District Control of the Control of t	Cash	Cash
	ontiny.	returns.
Seed	£ 2.88	
9 Irrigations in seed bed and		
Sirrigations in field- about	3.50	
Sacks and sundry, about	2.56	
3916 pounds of ontons at 25-		700000
1.8c		\$73,24
Net cash returns, not de- ducting labor	61,30	
	472.04	200 01

The amount of labor expended upon this crop was large for the area, especially at the transplanting time. One day's team work in preparing the land and about 22 days, men's time, were required to bring it through, although the work was not heavy and could have been largely performed by boys. The yield was low ewing to the desert and unfertilized character of the soil, onions requiring large amounts of organic matter in the soil to give good results.

Early Rose potatoes; St acres: Seed potatoes planted Feb. 16-19, 1906. Beginning to bloom April 13. Crop all harvested June 13. Yield, 2015 pounds. Highest price, May 24, 3%c. Bulk of crop, 2%c. All marketed in Yuma.

Luma.	Cash outlay.	Cash
250 pounds seed-potatoes freight on same Irrigating water for sesb used as fertilizer 2 irrigations for crop- Formaline for scab, inc	\$ 8.03 ania 2.98 84	
ing express. 2515 pounds of polatoe 3%-22c. Net cash returns, not dueting labor	s at de-	\$70,0
	\$70,00	\$70.00

The amount of labor required for the crop liself was about 15 working days, with team 1% days. The sesbania used as green manuring on the west half of the potato ground was given 17 irrigations. Bermuda grass, moreover, flourished beneath the sesbania to such an extent as subsequently to require 25 days labor for cleaning up the 45 accress fertilized. Although the larger part of the crop came from the sesbania fertilized portion of the potatoes, this method of enriching the soil proved very costly, 27 days mans time and 3 days team-work being required to put the sesbania under and afterwards get rid of the Bormuda grass. Nevertheless, the labor entailed could easily have been managed by a careful farmer, as the Bermuda digging was done in January when other work was not urgent.

sold locally down to 2c.		
Seed	Cash outlay, 8 1.72	Cash returns
18 Irrigations, 4 acre	66.50	
Net cash returns, not d	e-	\$624.60*

*Not including \$14.60, failed to collect.
Until the last of June this crop required but little labor. During the shipping season, however, four persons were employed on about half time in picking, packing and shiping the crop. The entire labor requirements for the crop were, men's time, \$8 days; women and boys, \$8 days; and team 10 days, the heaviest demand upon labor before decimal.

Century yielded about equally well, both being of the dwarf bushy sorts best adapted to this cimate. Barnard manure was used under the double rows, otherwise the ground der the double rows, otherwise the ground was unfertilized save by the muddy trigating

water used.

Rockyford cantaloures; Lacre: Seed planted March 7-9, 1995. Cold, backward sasson resulting in thin stand equal to about three-fourths of an acre. Crop pleked July 5 to Sept. 7. Yield 750 dozen, sold locally at from 35c to 15c a dozen.

\$141.6

The labor on this crop was light, but in this case time consuming, because of inconvenient arrangements for marketing. There were employed on the crop 31 days men's time; 8 days women and boys; and 2 days team, not otherwise included.

The crop was fertilized with barnyard manure in about three-fourths of the hills, and, as stated above, the stand was poor. The results of this are are therefore conservative.

Watermelons and sundry small items of produce were sold locally to the amount of the conservative.

Seed and irrigating water, about \$ 200 Leaving a cash return of about 13.65

Alfalfa; 1.70 acres: This was sown May 18, 1905, yielding three cuttings of about five tons of clean hay the first season. During the second season, covered by this Timely Hint, there were seven cuttings with a total of about 20 tons of hay. The only cash outlay was \$22.41 for irrigating water. The labor required was, man's time, 14 days and team nine days, which is rather high labor requirement for this alfalfa on account of the small size of the field under consideration, and limited use of machinery. This crop at \$5.00 to \$10.00 a ton, loose, which has been the price this season, represents a cash return of not less than \$120.00 for the crop, but this hay was used to feed the team employed on the place, proving to be more than sufficient for that purpose, since a stack of about three tons remains at the end of the season. The manure from this source, being free from Bermuda grass seed, was especially valuable for fertillizing a part of the crops grown. \$15,65 \$15.65 lzing a part of the crops grown.

His Dear Old Mother.

"My dear old mother, who is now 83 ing court. years old. thrives on Electric Bitters," writes W. B. Brunson of Dublin, Ga. "She has taken them for about two years and enjoys an excellent appetite, feels strong and sleeps well." That's and the same happy results follow in all cases of female weakness and general debility. Weak, puny children, too, are greatly strengthened by them. Guaranteed, also, for stomach, liver and kidney troubles by all druggists.

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If your druggist does not stock our vaccines, order direct from us.

His Idea of a Good Time.

The retired contractor sighed as he got into his dress suit and ent. thought of the eleborate dinner and the opera that were to come, were read and approved, all "Some day," he said, "I'll get members voting aye. real desp'rit, an' then do you know what I'll do?"

the back way, an' smoke a quar. licenses, each one to be dated ter-pound of cut-up chewin' to. October 1, 1907. bacco in a cob pipe, while I'm Bohemian.

subject to croup and he has used this ginning October 19, 1907. Tomatoes, Dwarf Champion and Burpee's Quarter Century: 32 acres: Seed planted in cold-frame, Feb. 1, 1903. Transplanted to field, March 12-15. First ripe tomatoes, June 10. Last of marketable crop, Sept. 8. Yield, first-class, 1122 pounds; second class, salable, 223 pounds; waste, most of which could have been canned, 1830 pounds. Total crop of 3300 vines, 1331 pounds or 15 pounds, gross, to the vine. Highest price received, 30c for a single pound en June 10. Bulk of first-class crop sold during July in Tucson and Bisbee markets, at 10% to 4%c f. o. b. Yuma. Second class crop bors and all who have used it say that ale is on sale wherever drinks are side drug store.

-We have residing in the southern suburbs of our town a young man, who, if reports are true, is wonderfully and fearfully made. His doctor heaviest demand upon labor being during July. Dwarf Champion and Burpee's Quarter said he had a heart of stone; his

H. H. DONKERSLEY

G. H. ROCKWOOD

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enemies declared that there was more brass to him than anything else; others declared that he had lots of sand, while his admirers declared he was all wool and a yard wide.

OFFICIAL MINUTES

the Proceedings of the Board of Supervisors of Yuma County, Arizona.

ors of Yuma County, A. T.

and clerk present; district attor-

Minutes of October 3, and 7, members voting aye. The following accounts were

ordered drawn: CH Utting, salary clerk dist court, 3rd qr 1907.\$ 62 50

R H Theilmann, bounty wild animals..... 10 00 Gus Livingston, telegrms J Milton, wk county jail. CH Utting, fees district clerk

J W Dorrington, printing " pub mins. of Bd 244 25 " work road dist. No. 4 (assign'd) 100 00 Yuma Ice Co., ice..... 52 80

Geo Fishbaugh, rebate on taxes, 1906..... 14 49 On motion board adjourned to meet at 10 a. m. Oct. 19, 1907.

T H Woods, serv. county

H. H. Donkersley, Chairman. J. M. Polhamus, Clerk.

to adjournment, all members horses shown anywhere. district attorney and clerk pres-Minutes of October 14, 1907,

Sheriff Gus Livinston appeared before the board and made "Something terrible, no application for retail liquor lidoubt," replied his ambitious cense for Hart & Stineman, Ehrenberg, Arizona, and for H. "I s'pose it wouldn't look well S. Wall, Bouse, Arizona. On in print," he admitted, "but I motion of J. H. Shanssey and can't help that. What I'll do will seconded by H. H. Donkersley, be to throw away these high the above liquor licenses are priced cigars, put on some old hereby granted and the sheriff clothes, go out and come in by is hereby authorized to issue said

On motion, duly seconded and talkin' things over with the carried, Supervisors A. H. Kent, coachman in the barn."-The J. H. Shanssey and H. H. Donkersley and County Recorder J. cial grudge against any kind of M. Polhamus are hereby granted chair that is comfortable. a leave of absence from the territory of Arizona at such times Mr. W. C. Bott, a Star City, Ind., during the present quarter as they may desire, such absence Remedy. His children have all been not to exceed 60 days in all, be-

On motion board adjourned to meet at 10 a. m. Oct. 22, 1907.

H. H. Donkersley, Chairman. J. M. Polhamus, Clerk.

The Yuma Ice Co.'s extra dry ginger sold. Try it.

Territorial Fair.

Unusual interest exists in various parts of the Territory in regard to the Third Annual Territorial Nair which is to occur in Phoenix, November 11 to 16th.

No industry that is beneficial

to our productions has been overlooked. The dairy interests have been given the full attention to which they are entitled. Office of the Board of Supervis- As a matter of illustration of showing how little we know of Yuma, Arizona, Oct. 14, 1907. our recorses: how many of the Board met at 10 a. m. pursu- residences of our Territory know ant to adjournment, all members, that we manufacture the Lily Cream? Yet such is the case ney absent on account of attend. and an advertising exhibit will be given by them consisting of a trained Jersey Cow harnessed 1907, were read and approved, all to a wagon and driven about the grounds.

Cows being milked by machinthe way Electric Bitters affect the aged, audited, allowed and warrants ery is another interesting feature that may be seen at the Fair in connection with the Dairy Department.

> That all may be entertained who attend the Fair, many forms of amusement will be provided, the most important being the harness and running races. There are now stabled on the grounds in excess of one hundred horses, which are entered in the race events, and there are enough other horses entered which are yet to arrive to swell the number above two hundred. This is to be the largest race meet held this year west of the Mississippi. It will be productive of exceptionally fast time and close finishes. In one event, in addition to others, there are five horses entered that have been racing in the Grand Circuit this season. There are many of those entered Office of the Board of Supervis- here that have made good reors of Yuma County, Arizona. cords in the Grand Circuit this Yuma, Arizona, Oct. 19, 1907. year and all who come to the Board met at 10 a. m. pursuant Fair will see the fastest and best

> > Arrangements have been made to have the streets at the Fair Grounds sprinkled so that there will not be the usual amount of dust. Do not miss taking in the greatest Fair ever held in the southwest.

> > > Very respectfully, Geo. Truman. Secretary.

Beefsteak and sole leather have both gone up in price, so it will be no easier to distinguish between them than before.

By any other name the devil

would be as tempting. A woman seems to have a spe-

A girl has lo have a mighty poor complexion not to be afraid it might get spoiled by sunburn.

much more if it had to be fed

An automobile wouldn't cost

learn to walk without help. It costs some men a lot of

Good intentions never seem to

think think they are popular,

Simply the visible sign that baby's tiny bones are not forming rapidly enough.

Lack of nourishment is the cause. Scott's Emulsion nourishes baby's entire system. Stimulates and makes bone. Exactly what baby needs.

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